

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ACEIONA
PRODUCT CODE: AC-100

HMS CODES: H F R P
1 3 6 H

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: Lanco Mfg.
ADDRESS: URB. APONTE #5 SAN LORENZO PR, 00754
EMERGENCY PHONE: 1-800-424-9300 INFORMATION PHONE: (767) 736-4221
DATE REVISED : 01-01-99 NAME OF PREPARER : VICTOR M. HERNANDEZ

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

| HAZARDOUS COMPONENTS | CAS NUMBER | OCCUPATIONAL EXPOSURE LIMITS | | | VAPOR PRESSURE mm Hg @ TEMP | WEIGHT PERCENT |
|----------------------|------------|------------------------------|-----------|-------|--------------------------------|-------------------|
| | | OSHA PEL | ACGIH TLV | OTHER | | |
| 42-PROPANE | 67-64-1 | 1000 PPM | 750 PPM | N/A | 213.0 | 77F 100 |

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING POINT: 133 Deg F SPECIFIC GRAVITY (H2O=1): 0.6
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C. : 6.60 LB/GL (791 G/L)
MATERIAL V.O.C. : 6.60 LB/GL (791 G/L)
SOLUBILITY IN WATER: NON SOLUBLE
APPEARANCE AND ODOR: SOLVENT

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: -4 Deg F METHOD USED: FCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

RESPIRATORY EQUIPMENT SHOULD BE WORN TO AVOID INHALATION OF CONCENTRATED VAPOR. WATER SHOULD NOT BE USED EXCEPT AS FOG TO KEEP NEARBY CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARDS

EXTREMELY FLAMMABLE. VAPORS MAY IGNITE EXPLOSIVELY AND/OR CAUSE FLASH FIRES. ELIMINATE SOURCES OF IGNITION. NO SMOKING.
USE ADEQUATE CROSS VENTILATION SUFFICIENT TO REMOVE ODOR OF SOLVENT AND VAPORS.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

EXCESSIVE HEAT, POOR VENTILATION, CORROSIVE ATMOSPHERES, EXCESSIVE AGING.

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZING AGENTS, STRONG ACIDS AND OXIDIZING MATERIALS, ALKALINE MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

NONE

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

ACUTE SIGS OF OVEREXPOSURE COULD BE HEADACHE, DIZZINESS, NAUSEA, UPPER RESPIRATORY DRYNESS & IRRITATION, DROWSINESS, MENTAL DEPRESSION OR NARCOSIS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

EYE CONTACT: SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN CONTACT: CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION, AND DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

HEALTH HAZARDS (ACUTE AND CHRONIC)

INHALATION-DIZZINESS, BREATHING DIFFICULTY, HEADACHES, & LOSS OF COORDINATION. EYE CONTACT-SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION. SKIN CONTACT- CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS. INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING NAUSEA, & DIARRHEA. NO CHRONIC HEALTH EFFECTS.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

NONE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

ANESTHESIA, RESPIRATORY TRACT IRRITATION, DERMATITIS, NAUSEA, VOMITING.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION OVEREXPOSURE - MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION. EYE CONTACT- FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES. SKIN CONTACT- WASH THOROUGHLY WITH SOAP AND WATER AND SEE A DOCTOR. INGESTION DO NOT INDUCE VOMITING, CAN CAUSE CHEMICAL PNEUMONITIS AND PULMONARY EDEMA. CONTACT PHYSICAL IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ELIMINATE IGNITION SOURCES, PROVIDE GOOD VENTILATION, DIKE SPILL AREA ADD ABSORBENT EARTH OR SAWDUST TO SPILLED LIQUID. THOROUGHLY WET W/ WATER AND MIX.

WASTE DISPOSAL METHOD

COLLECT ABSORBENT/ WATER/ SPILLED LIQUID MIXTURE INTO METAL CONTAINERS AND ADD ENOUGH WATER TO COVER. CONSULT LOCAL, STATE & FEDERAL HAZARDOUS WASTE REGULATION BEFORE DISPOSING INTO APPROVED HAZARDOUS WASTE LANDFILLS. OBEY RELEVANT LAW.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE 60-95 F OUT OF SUN. USE ADEQUATE VENTILATION TO AVOID BREATHING VAPOR WHEN COVER REMOVED. KEEP AWAY EXCESSIVE HEAT AND OPEN FLAMES.

OTHER PRECAUTIONS

GROUND ALL EQUIPMENT WHEN HANDLING FLAMMABLE SOLVENT BORNE MATERIALS. SMOKING IN AREA WHERE THIS MATERIAL IS USED SHOULD BE STRICTLY PROHIBITED.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

WHEN SPRAYING THIS MATERIAL USE A NIOSH APPROVED CARTRIDGE RESPIRATOR OR GAS MASK SUITABLE TO KEEP AIRBORNE MISTS AND VAPOR CONCENTRATIONS BELOW THE TIME WEIGHTED THRESHOLD LIMIT VALUES. WHEN USING IN POORLY VENTILATED AND CONFINED SPACES, USE A FRESH-AIR SUPPLYING RESPIRATOR OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION

SUFFICIENT TO KEEP WORKROOM CONCENTRATION BELOW TLV. VENTILATION EQUIP. MUST BE EXPLOSION PROOF.

PROTECTIVE GLOVES

CHEMICALS RESISTANT GLOVES.

EYE PROTECTION

USE CHEMICAL SAFETY GLASSES, GOGGLES, AND FACESHIELDS FOR EYE PROTECTION.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

USE IMPERMEABLE APRONS AND PROTECTIVE CLOTHING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. THE USE OF HEAD CAPS WHENEVER POSSIBLE IS STRONGLY RECOMMENDED.

WORK/HYGIENIC PRACTICES

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE IS RECOMMENDED.

===== SECTION IX - DISCLAIMER =====

DISCLAIMER

The information contained herein is based on data believed by this company to be accurate, but we do not assume any liability for its accuracy. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. The manner of that use and whether there is any infringement of patents is the sole responsibility of the user.